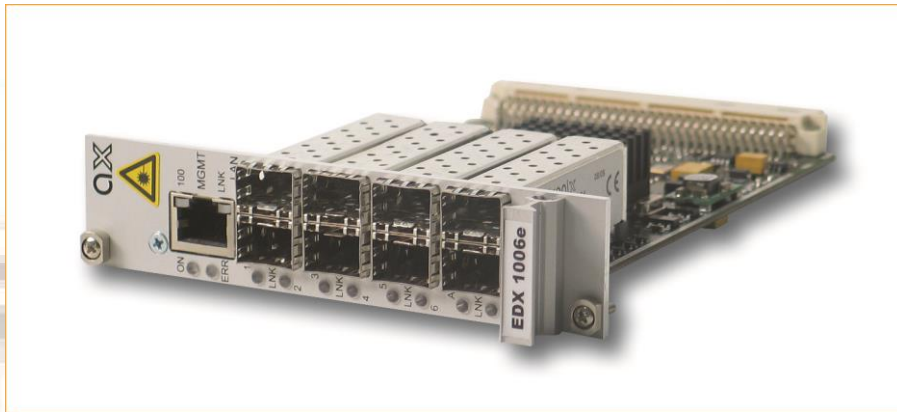# arcutronix

EDX1006e
Gigabit Ethernet Demarcation

Introduction

The EDX1006e is a fully managed compact Gigabit-Ethernet demarcation device for Ethernet applications. arcutronix technology is a powerful way to enable the delivery of high quality broadband services throughout the entire CSA (carrier servicing area).

The EDX1006e is designed designed as demarcation devices for provider's network and edge. A wide bunch of different optical interfaces are supported on LAN and WAN side of the unit. All types of GigE-SFPs are supported and so an universal converter/repeater for wavelength, fibre-mode and distance can be setup.

When acting on the provider's edge the EDX1006e is terminating the optical Metro Ethernet or EFM-network towards the customer's CPE. Provider's VLAN tagging (acc. to 802.1ad) makes it possible to transparently interconnect networks of different customers and keep full privacy of data traffic.

The EDX1006e offers full local and remote management access to give carrier class performance monitoring and a wide range of SLA settings via SNMP, CLI and web-based management.

EDX1006e can be housed in small footprint single-slot housings as well as 19'' racks with central management access.

Features

▶ Carrier-class Gigabit-Ethernet conversion from
- o   10/100/1000BaseT to 1000Base-X or
- o   100BaseFX to 1000Base-X or
- o   optical GigE extension or
- o   optical GigE media conversion

▶ 2x GbE network ports for pluggable SFP

▶ 6x FastE network ports for pluggable SFP

▶ SFP transceiver for short, long haul and WDM applications are supported
- o   Copper SFP (10/100/1000BaseT) supported
- o   No limitation for SFP usage

▶ Provider Bridge with QinQ support

▶ Bandwidth Limitation per port

▶ Performance monitoring on all ports

▶ Hardened version

▶ Remote flash software update

▶ SNMP Agent onboard

▶ Secure configuration via SSHv2 (Secure Shell) terminal

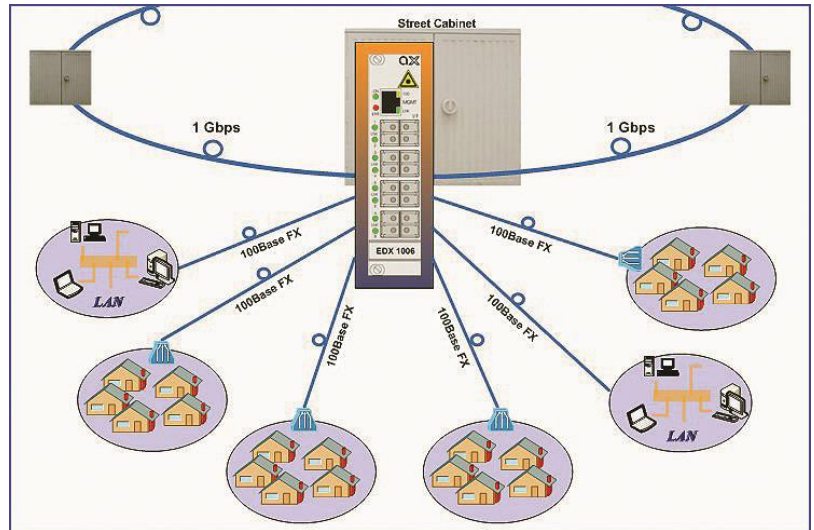▶ Permanent remote in-band management

▶ Compact 3RU design

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Application Example

EDX1006e as Carriers optical distribution points in street cabinets with extended temperature range.

EDX1006e enables carriers to connect different locations via six 100Base FX ports providing FTTO and FTTH applications.

Both GbE ports are used for GbE ring functionality where the EAPS algorithm guaranties protection-switching time of less than 50ms.

Specifications

Network I/F (WAN)

- 1(2)   x 1000Base-X
  - Pluggable SFP types
  - Connector: SFP
  - Electrical (RJ45) SFP for GbE

Service I/F (LAN)

- 6 x 100BaseFX
  - IEC 60870-5-104
  - Pluggable SFP types
  - Connector: SFP

Features

- Traffic classification/priority based on TOS/DSCP/802.1P/802.1Q
- 4 priority queues for traffic management
- Low latency handling of VoIP/video services
- 802.1Q VLAN: forwarding, stacking (802.1Q-in-Q)
- 16 port based VLANs with tagging acc. IEEE802.1Q
- Remote Failure detection with LPT and RFD
- Support of STP and RSTP according to IEEE 802.1
- Ethernet Automatic Protection Switching (EAPS) according to RFC3619
- 8k MAC addresses supported
- Jumbo-Frames supported:
  - MTU (Maximum Transmission Unit): 1632 Bytes

Management

- CLI, HTTP/GUI and SNMPv1 and v2c
- Serial and Ethernet ports for local management
- SSH or Telnet support
- Software download via TFTP
- DHCP support

Environmental (Extended temperature range)

- Operating: -25 to +70°C (ETS300019-1-3; class3.3)
- Transport: -25 to +70°C (ETS300019-1-2; class2.2)
- Storage: -25 to +55°C (ETS300019-1-1; class1.2)
- Humidity: 10 to 90%, non-condensing
- Safety-Norm: acc. to EN60950
- Emission: EN55022 class B

Power

- Supply Voltage: +5 VDC via Backplane
- Power consumption: < 9 VA, over current protected
  - Total power consumption depends on SFPs
- Power supply via system rack SRX or housing SHX

Physical

- Weight: < 250g
- Dimensions:
  - 130mm H x 30mm W x 190mm D
  - 45mm H x 145mm W x 260mm D (in SHX3)
- 19'' rack: 10 slots available in 3RU rack

For more information please contact arcutronix GmbH or visit us at www.arcutronix.com.